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Datasheet for ABIN7196471 IL2 Receptor beta Protein

Overview

Quantity: 100 µg

Target: IL2 Receptor beta (IL2RB)

Origin: Human

Source: HEK-293 Cells

Protein Type: Recombinant

Biological Activity: Active

Product Details

Purpose: Recombinant Human CD122/IL-2RB Protein (Active)

Sequence: Met 1-Asp 239

Characteristics: The mature form of human IL2 R β (NP_000869.1) extracellular domain (Met 1-Asp 239) with five amino acids (DDDDK) at the C-terminus was expressed and purified.

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg as determined by the LAL method.

Biological Activity Comment: 1. Measured by its binding ability in a functional ELISA. Immobilized human IL2R β at 10 µg/ml (100 µl/well) can bind biotinylated human IL2, The EC₅₀ of biotinylated human IL2 is 0.1-0.24 µg/mL. 2. Measured by its ability to inhibit IL15-dependent proliferation of MO7e human megakaryocytic leukemic cells in the presence of 4.0 ng/mL of recombinant human IL-15. The ED₅₀ for this effect is 1-4 µg/mL.

Target Details

Target:	IL2 Receptor beta (IL2RB)
Alternative Name:	CD122/IL-2RB (IL2RB Products)
Background:	<p>Background: Interleukin-2 receptor (IL-2R) also known as High affinity IL-2 receptor subunit beta, IL-2 receptor subunit beta, and IL-2RB, is involved in T cell-mediated immune responses. CD122/IL-2RB is present in 3 forms with respect to ability to bind interleukin 2. The low affinity form is a monomer of the alpha subunit and is not involved in signal transduction. The intermediate affinity form consists of an alpha/beta subunit heterodimer, while the high affinity form consists of an alpha/beta/gamma subunit heterotrimer. Both the intermediate and high affinity forms of CD122/IL-2RB are involved in receptor-mediated endocytosis and transduction of mitogenic signals from interleukin 2. CD122/IL-2RB expression was restricted to the earliest B220+ cells (CD43+CD24-, prepro B cells, fraction A) that proliferate vigorously to IL-2 in the absence of any stromal cells, but not to IL-15. The high-affinity form of this receptor is expressed on activated T lymphocytes, activated B lymphocytes, and activated macrophages. CD122/IL-2RB plays a role in regulating normal lymphocyte development.</p> <p>Synonym: CD122,IL15RB,P70-75</p>
Molecular Weight:	25.2 kDa
NCBI Accession:	NP_000869
Pathways:	JAK-STAT Signaling, Growth Factor Binding

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 100 mM NaCl, 50 mM Tris, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.